Appl. No.

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AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A genetically modified plant comprising in its genome at least one exogenous antisense FT encoding nucleotide antisense sequence that inhibits expression of a FT gene having a nucleotide sequence as set forth in SEQ ID NO: 1, and wherein said plant has a in its genome and having the phenotype of delayed flower development.

Claims 2-5 (Cancelled)

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- 6. (Currently Amended) The genetically modified plant of claim 1, wherein the at least one antisense exegeneus FT encoding nucleotide sequence comprises has at least 95% identity to a nucleotide sequence set forth in SEQ ID NO:3.
 - 7. (Cancelled)
- 8. (Currently Amended) The genetically modified plant of claim 1, wherein the structural gene at least one antisense sequence is operably associated with a regulatory nucleotide sequence.
- 9. (Original) The genetically modified plant of claim 8, wherein the regulatory nucleotide sequence is a promoter.
- 10. (Original) The genetically modified plant of claim 9, wherein the promoter is a constitutive promoter.
- 11. (Original) The genetically modified plant of claim 9, wherein the promoter is an inducible promoter.
- 12. (Currently Amended) The genetically <u>modified</u> plant of claim 1, wherein the nucleic acid further comprises further comprising a selectable marker genetically linked to the at least one antisense sequence.
- 13. (Currently Amended) The genetically modified plant of claim 1, wherein the plant is a dicotyledonous plant.
- 14. (Currently Amended) The genetically <u>modified</u> plant of claim 1, wherein the plant is a monocotyledonous plant.
- 15. (Currently Amended) A plant cell derived from the genetically modified plant of claim 1.

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16. (Currently Amended) Plant tissue derived from the genetically modified plant of claim 1, wherein the plant tissue comprises in its genome at least one antisense sequence that inhibits expression of a FT gene having a nucleotide sequence as set forth in SEQ ID NO: 1.

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- 17. (Currently Amended) A seed which germinates into a plant comprising <u>in its</u> genome at least one exogenous antisense FT encoding nucleotide <u>antisense</u> sequence <u>that inhibits</u> expression of a FT gene having a nucleotide sequence as set forth in SEQ ID NO: 1, and wherein said plant has a in its genome and having the phenotype of delayed flower development.
- 18. (Currently Amended) The seed of claim 17, wherein the least one exogenous entisense FT encoding nucleotide at least one antisense sequence has at least 80% 95% sequence homology identity to SEQ ID NO:3.
- 19. (Currently Amended) A vector containing a nucleotide sequence comprising at least one antisense FT sequence operably associated with a promoter, wherein said vector, when introduced into a plant, encodes at least one antisense molecule that inhibits expression of a FT gene having a nucleotide sequence as set forth in SEQ ID NO: 1 and wherein said plant exhibits delayed that inhibits flower development in comparison to a wildtype plant poperably associated with a promoter.
- 20. (Currently Amended) The vector of claim 19, wherein the at least one antisense FT sequence has at least 80% 95% sequence homology identity to SEQ ID NO:3.
- 21. (Currently Amended) The vector of claim 19, wherein the vector comprises a T-DNA derived sequence vector.
 - 22. (Cancelled)
- 23. (Original) The vector of claim 19, wherein the promoter is a constitutive promoter.
- 24. (Original) The vector of claim 19, wherein the promoter is an inducible promoter.

Claims 25-34 (Cancelled)

35. (New) A method of producing a genetically modified plant having delayed flowering, comprising:



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contacting plant cells with a vector encoding an antisense sequence that interferes with expression of a FT gene having a nucleic acid sequence set forth in SEQ ID NO: 1 to create transformed plant cells;

growing plants from said transformed plant cells; and

screening for a plant exhibiting delayed flower development relative to wildtype plants.

- 36. (New) The method of Claim 35, wherein said antisense sequence has at least 95% identity with the nucleic acid sequence set forth in SEQ ID NO: 3.
- 37. (New) The method of Claim 35, wherein said antisense sequence is linked to a promoter.
 - 38. (New) The method of Claim 37, wherein said promoter is a constitutive promoter.
 - 39. (New) The method of Claim 37, wherein said promoter is an inducible promoter.

